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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,423	07/25/2005	Susanna Abrahmsen Alami	056291-5273US	3007
,	7590 06/11/200 VIS & BOCKIUS LLP	EXAMINER		
1111 PENNSYLVANIA AVENUE NW			CHANDRAKUMAR, NIZAL S	
WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
			1625	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/516,423	ALAMI ET AL.
Office Action Summary	Examiner	Art Unit
	NIZAL S. CHANDRAKUMAR	1625
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>08 A</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under <u>B</u>	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) 4,6,7 and 9 is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,5 and 8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or are subject to restriction and/or are subjected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accomplicant may not request that any objection to the	or election requirement. er. septed or b)□ objected to by the I	
Replacement drawing sheet(s) including the correct		•
11) The oath or declaration is objected to by the Expriority under 35 U.S.C. § 119	Anninei. Note the attached Office	ACTION OF TOTAL
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/31/2009, 05/09/2007, 08/28/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate



Application No.

DETAILED ACTION

This application filed 07/25/2005 is a 371 of PCT/SE03/00857 05/27/2003.

Election/Restrictions

Applicant's election without traverse of 04/08/2009 in the reply filed on Group I claims 1-3, 5 and 8 is acknowledged.

Claims 4, 6, 7 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 04/08/2009.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under

the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5 and 8 rejected under 35 U.S.C. 102(e) as being anticipated by Inghardt et al. WO 2002044145 filing date 11/30/2001.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Inghardt et at teach compound of claim 1-3, 8

Claim 1, R1 = monofluoro C1-alkyl; R2 = methoxy; n = 2

Note: The preamble of the claim relating to immediate release formulation is not given patentable weight because a preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on

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the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See In re Hirao, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 195.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-3, 5 and 8 rejected under) as being obvious over Inghardt et al. WO 2002044145 filing date 11/30/2001 further in view of Forsman et al. US 6875446 and US 6521253. 5252566

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it

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constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Inghardt et al. teach the pharmaceutical compositions of the active ingredients (thrombin inhibitors) of the instant claims. For example see page 190, line 19. Also see rejection under 102.

Inghardt et al. do not teach immediate release formulations; Inghardt et al. also do not teach the specific sulfonic acid salts of claims 4 and 5; but Inghardt et al teach pharmaceutically acceptable salts.

Forsman et al. teach making immediate release formulation of thrombin inhibitors.

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Forsman et al. do not teach the immediate release formulations of the specific thrombin inhibitors (active ingredients) of the instant claims.

Given an active ingredient, making various suitable pharmaceutical formulations of the active ingredient is part of routine exercise in the pharmaceutical art. One skilled in the art of pharmaceutical chemistry would make immediate release versions of the compositions and compounds of Inghardt et al, with reasonable expectation of success using the methods of Forsman et al. because Forsman et al teach making immediate release version of compositions containing thrombin inhibitors. Obviousness based on similarity of functions entails motivation to make the claimed formulations in expectation that formulations of similar in function will have similar properties; therefore, one of ordinary skill in the art would be motivated to make the claimed formulations in searching for new formulations of known active ingredients.

As to the specific salts of claim 4 and 5: Making and using acid salts of bases as active ingredients is well known in the art. (See for example Shuman et al. US 5252566 Column 10, lines 1-3 for a list of sulfonic acids usable in the formation of salts of thrombin inhibitor guanidine bases: methanesulfonic acid, n-butanesulfonic acid, p-toluenesulfonic acid and naphthalene sulfonic acid). Inghardt et al. teachings include salts of disclosed compounds. Selecting one acid over the other from the list of

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pharmaceutically acceptable acids for the routine optimization of properties is within practice of one skilled in the art.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim1-5 and 8 rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-2 and claims 1-3 U.S.

Patent No. 7056907 and 7129233 respectively. Although the conflicting claims are not identical, they are not patentably distinct from each other because: the instant claims are drawn to immediate release formulations of compounds/compositions of the claims of the issued patent. The active ingredients in the claims of the application and the issued patents are the same. See rejections under 35 U.S.C. 103 for prior art teaching available to one of skill

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in the art. It would have been obvious to make salts of the known basic compounds and formulate the compounds by routine optimization procedures to arrive at the instant claim limitations;

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIZAL S. CHANDRAKUMAR whose telephone number is (571)272-6202. The examiner can normally be reached on 8.30 AM - 4.30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571 0272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-/Nizal S Chandrakumar/

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